

Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

1 1. (Currently Amended) A wireless LAN system for predicting movement destination
2 of a child station, which includes the child station and a plurality of parent stations,
3 wherein each of said parent stations has a MAC address and comprises:

4 a wireless communication section for conducting communication with the
5 child station, the communication including detecting a handover of said child station
6 from said parent station;

7 a table control section acquiring a table having the ~~in which~~ MAC address of
8 each said parent stations that, relative to said parent station, can be a movement
9 destination parent station has been registered, in response to said wireless
10 communication section detecting the ~~when~~ handover of the child station ~~put under~~
11 ~~QoS communication is detected through the wireless communication section;~~

12 a band reserving request signal transmitting section for generating ~~sending~~ a
13 transmission instruction for transmitting a ~~of the~~ band reserving request frame to all
14 of said plurality of movement parent stations having their respective MAC address
15 registered in said table movement destination parent station; and

16 a LAN communication section for receiving the transmission instruction and
17 transmitting the band reserving request frame to the movement destination parent
18 stations via LAN.

1 2. (Currently Amended) The wireless LAN system ~~for predicting movement~~
2 ~~destination of the child station according to claim 1, wherein~~ each of said parent
3 stations further comprises:

4 a transmitter for transmitting a beacon signal identifying said parent station;
5 ~~said parent station further comprises~~ a signal strength measuring section for
6 receiving and quantifying a beacon signal of at least one adjacent parent station of
7 the parent stations, wherein

8 said table control section receives information of the qualified beacon signal
9 and produces the table obtained by selecting and registering only the parent stations
10 which generates a signal with a constant value or more ~~thereby handling the table as~~
11 ~~movement destination parent station position information~~, and

12 when the child station is moved, the band reserving request frame is
13 transmitted to the parent station which is predicted as the movement destination on
14 the basis of the movement destination parent station position information which the
15 table control section has.

1 3. (Original) The wireless LAN system for predicting movement destination of a child
2 according to claim 1, wherein

3 said parent station further comprises a movement direction determining
4 section for comparing MAC addresses of the parent stations existing in a movement
5 source and the movement destination of the child station with each other, and for
6 nullifying the transmission instruction of the reserving request to the band reserving
7 request signal transmitting section, when the MAC addresses are the same.

1 4. (Original) The wireless LAN system for predicting movement destination of a child
2 according to claim 2, wherein

3 said parent station further comprises a movement direction determining
4 section for comparing MAC addresses of the parent stations existing in a movement
5 source and the movement destination of the child station with each other, and for

6 nullifying the transmission instruction of the reserving request to the band reserving
7 request signal transmitting section, when the MAC addresses are the same.

1 5. (Currently Amended) The ~~wireless LAN~~ system for ~~predicting movement~~
2 ~~destination of a child~~ according to claim 1, further comprising a local area route
3 information server for providing a route information in a local area to each of said
4 parent stations, said route information representing a direction that a child station
5 cannot be moved in relation to said parent station in LAN, wherein

6 said parent station further comprises a route state determining section for
7 receiving and storing the route information ~~about a direction in which the child station~~
8 ~~can not be moved~~ and, based on said stored route information, nullifying a
9 transmission instruction for transmitting a band of the reserving request to the parent
10 station positioned in the direction in which the child station can not be moved ~~to the~~
11 ~~band reserving request signal transmitting section on the basis of the route~~
12 ~~information.~~

1 6. (Currently Amended) The ~~wireless LAN~~ system for ~~predicting movement~~
2 ~~destination of a child~~ according to claim 2, further comprising a local area route
3 information server for providing a route information in a local area to each of said
4 parent stations, said route information representing a direction that a child station
5 cannot be moved in relation to said parent station in LAN, wherein

6 said parent station further comprises a route state determining section for
7 receiving and storing the route information ~~about a direction in which the child station~~
8 ~~can not be moved~~ and, based on said stored route information, nullifying a
9 transmission instruction for transmitting a band of the reserving request to the parent
10 station positioned in the direction in which the child station can not be moved ~~to the~~

band reserving request signal transmitting section on the basis of the route information.

7. (Currently Amended) The ~~wireless LAN~~ system for predicting movement destination of a child according to claim 3, further comprising a local area route information server for providing a route information in a local area to each of said parent stations, said route information representing a direction that a child station cannot be moved in relation to said parent station in LAN, wherein

said parent station further comprises a route state determining section for receiving and storing the route information ~~about a direction in which the child station can not be moved~~ and, based on said stored route information, nullifying a transmission instruction for transmitting a band of the reserving request to the parent station positioned in the direction in which the child station can not be moved ~~to the band reserving request signal transmitting section on the basis of the route information~~.

8. (Currently Amended) The ~~wireless LAN~~ system for predicting movement destination of a child according to claim 1, wherein

said table control section counts the number of movement times of the child station ~~for each aspect of movement source per movement destination from association setting information at a handover time to produce the table obtained by~~ to represent the probability of each of the parent stations being the movement destination ~~raties~~ of the child station, and instructs to transmit the band reserving request frame to the parent station with the highest movement probability of the table.

1 9. (Currently Amended) The ~~wireless LAN system for predicting movement~~
2 ~~destination of a child~~ according to claim 2, wherein

3 said table control section counts the number of movement times of the child
4 station ~~for each aspect of movement source~~ per movement destination ~~from~~
5 ~~association setting information at a handover time~~ to produce the table ~~obtained by~~
6 to represent the probability of each of the parent stations being the movement
7 destination ~~ratios~~ of the child station, and instructs to transmit the band reserving
8 request frame to the parent station with the highest movement probability of the
9 table.

1 10. (Currently Amended) The ~~wireless LAN system for predicting movement~~
2 ~~destination of a child~~ according to claim 3, wherein

3 said table control section counts the number of movement times of the child
4 station ~~for each aspect of movement source~~ per movement destination ~~from~~
5 ~~association setting information at a handover time~~ to produce the table ~~obtained by~~
6 to represent the probability of each of the parent stations being the movement
7 destination ~~ratios~~ of the child station, and instructs to transmit the band reserving
8 request frame to the parent station with the highest movement probability of the
9 table.

1 11. The wireless LAN system for predicting movement destination of a child
2 according to claim 5, wherein

3 said table control section counts the number of movement times of the child
4 station for each aspect of movement source per movement destination from
5 association setting information at a handover time to produce the table obtained by
6 calculating movement destination ratios of the child station, and instructs to transmit

7 the band reserving request frame to the parent station with the highest movement
8 probability of the table.

1 12. (Currently Amended) A wireless LAN parent station for predicting movement
2 destination of a child station, comprising:

3 a wireless communication section for conducting communication with the
4 child station, the communication including detecting a handover of said child station
5 from said parent station;

6 a table control section for acquiring a table having the in which MAC address
7 of each said parent stations that, relative to said parent station, can be a movement
8 destination parent station has been registered, in response to said wireless
9 communication section detecting the when handover of the child station put under
10 QoS communication is detected through the wireless communication section;

11 a band reserving request signal transmitting section for generating sending a
12 transmission instruction for transmitting a of the band reserving request frame to all
13 of said plurality of movement parent stations having their respective MAC address
14 registered in said table movement destination parent station; and

15 a LAN communication section for receiving the transmission instruction and
16 transmitting the band reserving request frame to the movement destination parent
17 stations via LAN.